ANTHROPOLOGY

INVERTEBRATE ZOOLOGY

AQUATIC BIOLOGY

GEOLOGY

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HERPETOLOGY

California Academy of Sciences Annual Report 1996

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Executive Director/Chairman's Message

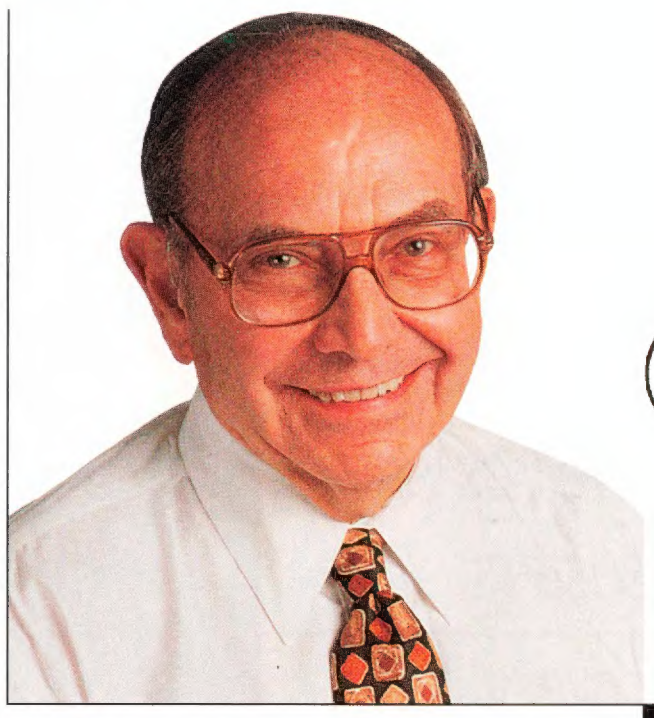
EVELYN E. HANDLER, PH.D.

EXECUTIVE DIRECTOR

RUSS FISCHELLA

In the years since the Academy was founded ... indeed, in the last decade ... the world has undergone a startling metamorphosis. A century ago, our mission to "explore and explain the natural world" found expression in relatively simple and direct ways. Today, by contrast, the natural world the early systematists explored is increasingly on the endangered list; and the public demands that its scientists find a "cure." Technology-sated museum-goers no longer stand rapt before dioramas and shark tanks. They see the natural world up close on "Discovery" or the world-wide web, receive it in Disneyesque doses in movies and theme parks. And they expect their museums to be – not merely educational – but dramatic and entertaining. We live in interesting times. We believe that, in the years to come, we will look back on the end of the 20th century as a pivotal moment in the Academy's history – the point at which this venerable and historic institution fulfilled its past and marched boldly forward to realize its destiny. For while the construction and rehabilitation projects, new expeditions and exhibitry that will characterize the Academy of the future lie just over the horizon, the plans for that future are being cast now. Because of its seminal – and unbroken – work in post-Darwin systematics, The Academy and its scientists are considered integral, expert links in the worldwide systematics research network. With myriad applications, these systematists' pure research has already led to:

better treatments for an array of human ills, improved tools for forecasting near- and long-term effects of climatic and man-made environmental changes, and enhanced methods of preserving our fragile natural world. In the future, new breakthroughs could conquer cancer and other scourges, snatch critical species from the brink of extinction, and draw the world community closer as it seeks to protect and preserve precious habitats. It is impossible to overestimate the achievements which could occur as the world's scientists, increasingly, function as members of a world-wide team bent on saving the natural environment and awakening the world's citizens to its wonders. Despite the Academy's international role and reputation, San Franciscans largely experience this institution through its Morrison Planetarium, Natural History Museum and Steinhart Aquarium. The years just ahead will transform them. But no matter how the fields of exhibitry and education change, the fruits of our scientists' expeditions and experiments will continue to find their way into the Academy's teaching and exhibit halls, enriching collections ... along with the lives of all who experience them as visitors or students. To be the guardians of all we are and the guides to all we may become is a signal honor ... but one we gladly share with those who support this institution with their gifts of time and energy, intellect and financial resources. To all of them, we dedicate this report.



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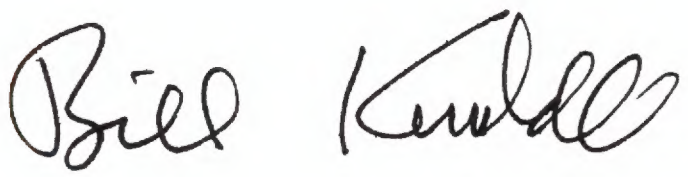


WILLIAM KIMBALL

CHAIRMAN OF THE BOARD

The Academy as Research Center:

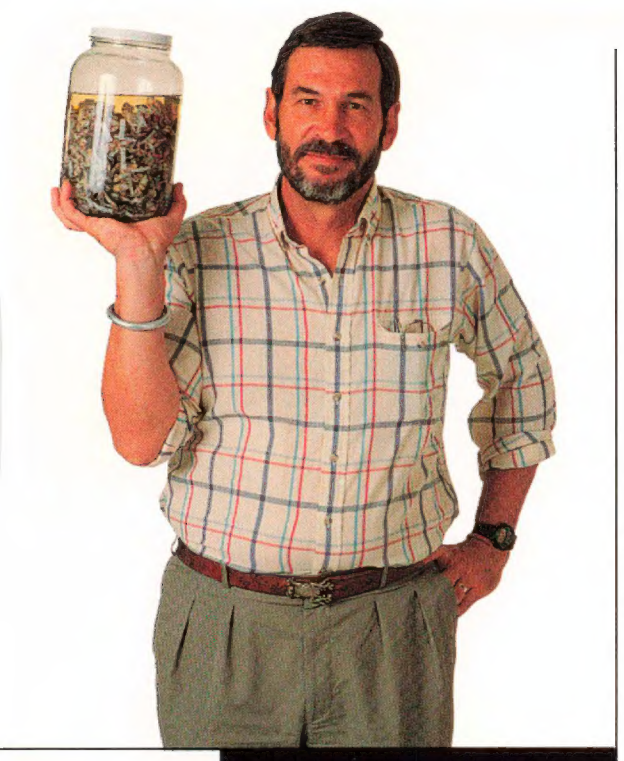
With ever-larger portions of the natural world – including mankind – making the endangered list, the role of the Academy's scientists has never been more critical, nor more international in scope. As post-Darwinian systematists, Academy scientists identify and study the geneologies of and relationships among the planet's kaleidoscope of species and sub-species. This puts them – and the Academy – at the forefront of the world's quest to understand the interdependencies and connections between all life forms while there is still time to use that knowledge to safeguard the planet and its inhabitants.

Academy scientists engage in a variety of expeditions and original research projects, whose practical applications may not become apparent for years or even decades. But in the recent past, the work of systematists has led to better treatments for an array of dreaded human ills, as well as antidotes for looming environmental disasters.

TO UNDERSTAND HOW BREAKTHROUGHS IN THE FIELD OF SYSTEMATICS BENEFIT SOCIETY, THINK BACK A FEW YEARS TO THE DISCOVERY THAT A DERIVATIVE OF THE BARK OF THE PACIFIC YEW – TAXOL – COULD ARREST THE SPREAD OF BREAST CANCER IN MANY PATIENTS. THIS TREE WAS SCARCE, HOWEVER, AND REMOVING ITS BARK KILLED IT. A GREAT PHARMACEUTICAL ADVANCE SEEMED ON THE BRINK OF SLIPPING THROUGH SOCIETY'S FINGERS ... THAT IS UNTIL A SYSTEMATIST DISCOVERED THAT A NEAR RELATIVE – THE EUROPEAN YEW – PRODUCED, AS THE RESEARCHER EXPECTED, TAXOL, TOO. MOREOVER, THIS EUROPEAN COUSIN WAS NOT ONLY MORE PLENTIFUL, BUT PRODUCED TAXOL IN ITS LEAVES, MAKING IT A MORE ABUNDANT AND SUSTAINABLE SOURCE OF THE LIFE-SAVING CHEMICAL.

Such stories abound ... of the discovery of exotic painkilling chemicals excreted through the skin of rare frogs; of a poisonous American spider whose African cousin also, as suspected, proved to be poisonous – allowing public health officials to safeguard pioneers moving into the spider's habitat; of agricultural pests eliminated through natural controls selected by systematists to do the job without becoming plagues themselves, and of species snatched from the brink of extinction by scientists' and economists' joint studies and advocacy of ecotourism in splendid Third World habitats.

The Academy's vast library and its specimen collections – among the world's largest, numbering nearly 15 million examples of plants, animals, fossils and cultural artifacts – provide the basis for Academy and visiting scientists' comparative studies in biodiversity issues worldwide.



CAROLINE KOPP

DR. ROBERT DREWES

HERPETOLOGIST

THE BOY WITH THE TADPOLE IN HIS POCKET HAS GROWN INTO THE SCIENTIST WITH AFRICA IN HIS BLOOD AND THE "GHOST FROG" OF NATAL IN HIS SIGHTS. IN FACT, DREWES IS THE ONLY PERSON IN THIS HEMISPHERE SPECIALIZING IN THE STUDY OF AFRICAN FROGS. HE IS ALSO, ARGUABLY, THE WORLD'S LEADING EXPERT ON THE IMPENETRABLE FOREST OF UGANDA. HIS ORIGINAL SURVEY OF AMPHIBIAN POPULATIONS THERE (IN 1990) LED THIS YEAR TO ANOTHER VISIT (AT THE UGANDAN GOVERNMENT'S REQUEST) AND A REPORT ON REPTILE PROTECTIONS NECESSARY TO FACILITATE ECOTOURISM IN THE PARK, WHERE HE HAS APPARENTLY DISCOVERED SEVERAL UNDESCRIBED SPECIES OF FROG.

SUSAN MIDDLETON

1995/96

AT A GLANCE

Departments conducting original research: anthropology, botany, entomology, herpetology, ichthyology, invertebrate zoology & geology, ornithology & mammalogy.

Number of projects underway: 20 scientists are conducting studies in 41 countries.

Size of collections: 14.8 million fossils, plant and animal specimens and artifacts; 185,000 volumes in the main and eight departmental libraries.

Specimens loaned to educational institutions and other scientists: 57,497

Number of scientists and lay persons using libraries: 642

Number of visiting scientists: 1200 representing 30 countries.

Interns and other students trained: 50

Total number of departmental visitors: 3,899

Volunteers assisting in all departments: 92

Seminars, lectures and other educational presentations made: 75

DONG LIN

DR. TERRY GOSLINER

INVERTEBRATE ZOOLOGIST

HIS JUST COMPLETED FIELD GUIDE TO CORAL REEF ANIMALS OF THE WESTERN PACIFIC (WRITTEN WITH ACADEMY CURATOR GARY WILLIAMS AND RESEARCH ASSOCIATE DAVID BEHRENS) HINTS AT TERRY GOSLINER'S FASCINATION WITH THE LUMINOUS SEA CREATURES OTHERS CALL INVERTEBRATES. ("IT SEEMS WRONG TO DESCRIBE THEM BASED ON WHAT THEY DON'T HAVE," HE MUSES.) ALTHOUGH HE WORKS IN MANY AREAS (INCLUDING THE PHILIPPINES AND PAPUA, NEW GUINEA), THE NATIONAL CANCER INSTITUTE SUPPORTS GOSLINER'S FIELD WORK AMONG THE BRIGHT-HUED DENIZENS OF THE OCEANS OFF PALAU. CHEMICALS THE ANIMALS PRODUCE ARE BEING STUDIED FOR POSSIBLE PHARMACEUTICAL USES. IF A RARE SPECIES IS FOUND TO PRODUCE A VALUABLE CHEMICAL, GOSLINER (OR ANOTHER EQUALLY ABLE SYSTEMATIST) WILL BE THE SCIENTIST TO POINT TO THE MORE ABUNDANT COUSIN WHICH SHARES THAT TRAIT.

How closely *are members of the same species related? Which might be sources of the next life-giving pharmaceuticals? What effects will human-caused environmental changes have on fragile ecosystems? How long can an endangered species of monkey last before it becomes extinct? Academy scientists are some of the few people in the world who can answer these complex questions, and the Academy is one of the few places on earth with libraries and specimen collections of sufficient scope to support their training and research.*

In addition to its new and on-going research projects, the Research Division last year installed a faster server, with support from Silicon Graphics, increasing the division's ability to apply computer-intensive numeric calculations to projections of evolutionary relationships. One of the major contributors of data to the Academy's web site (http://www.calacademy.org.), the division is putting on the web a catalog of the names of known species and sub-species (numbering in the millions) for use by the public, other scientists, researchers and policy-makers. The diatoms being studied by Director of Research Dr. Patrick Kociolek and the frogs identified by Dr. Robert Drewes are among the subjects now being photographed (and, in the case of the frogs, audio-taped) and put on the web. The day looms, however, when the direct link from microscope to web will be forged. At that moment, Academy scientists and their counterparts around the world can look at the same small life form and discuss the meaning of what they see in real time.

It has also begun developing formal graduate training collaborations with local universities to utilize Academy resources and collections in

DONG LIN

SUSAN MIDDLETON

DR. DAVE KAVANAUGH

ENTOMOLOGIST

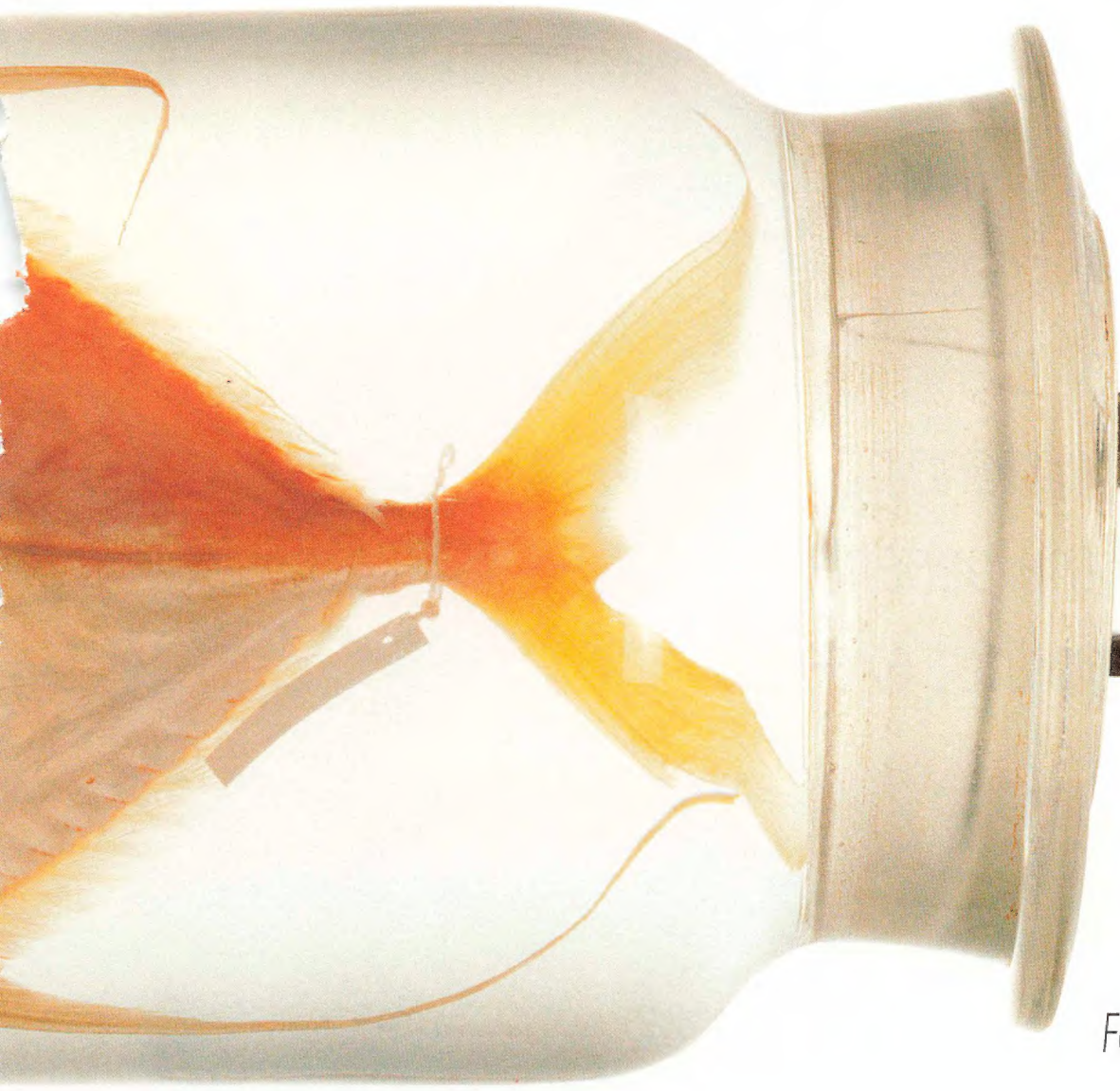
A 26 year study of a genus of predaceous ground beetle has made Dave Kavanaugh one of a handful of authorities in the world on *Nebria*. (Of the 55 North American species in the genus, Kavanaugh has discovered 17.) Another authority – a Russian – visited the Academy for the first time to participate in joint projects. Using special software and a powerful computer, they can analyze relationships based on structural similarities and project relationships between species. Such work not only gives clues to the history of the surrounding ecosystem but also has predictive value when environmental changes are factored in.

The diffident star of the Discovery Channel's "Galapagos: Beyond Darwin," John McCosker – the first Chair of the Academy's new Department of Aquatic Biology – was Chief Scientist aboard the CAS/Harbor Branch Oceanographic Institution Expedition to Galapagos. Using a submersible, he investigated deep sea fauna – a study which was the subject of the two-hour "Discovery" special. But he prefers the vast laboratories of the oceans to tv stardom. McCosker also spent a week in the Turks and Caicos Islands continuing his study of bioluminescent reef fishes and, under a fellowship from the Australian government, studied the eels of Australia in museums and fishery labs in the spring.

SUSAN MIDDLETON

DR. JOHN McCOSKER

AQUATIC BIOLOGIST



training the next generation of systematists … including taking first steps toward linking the Osher Molecular Research Laboratory and San Francisco State University DNA sequencing facilities. It hosted a delegation of scientists from the Yunnan Natural Science Foundation to discuss collaborative research efforts. An Academy delegation will visit China in the near future to continue negotiations. Meanwhile, two Academy scientists are already at work there: Dr. Bruce Bartholomew in botany and Dr. Nina Jablonski in anthropology (see profile). The division runs a captive breeding program of endangered winter-run chinook (see Aquarium section). Academy Curator of Entomology Dr. Wojciech Pulawski and Russian Academy of Sciences visiting scientist Dr. Alexander Rasnitsyn discovered a species of primitive wasp believed extinct for 25 million years. Fulfilling the Academy's mandate to train the next generation of systematists, the division hosted its Summer Systematics Institute. The National Science Foundation funds the Institute's program of lectures, labs, tours, field trips, which draws undergraduates from across the country.

DR. NINA JABLONSKI

ANTHROPOLOGIST

AN EMBATTLED GENUS OF MONKEY LIVING IN THE HIGH MOUNTAINS OF CHINA AND VIETNAM WOULD FACE ALMOST CERTAIN EXTINCTION (FROM HUNTING AND HABITAT LOSS) WERE IT NOT FOR THE INTERNATIONAL SCIENTIFIC COMMUNITY. AMONG THE MOST ARDENT ADVOCATES, THE ACADEMY'S NINA JABLONSKI, WHOSE WORK IN CHINA IS THE BASIS OF HER NEW BOOK, NATURAL HISTORY OF DOUCS AND SNUB-NOSED MONKEYS. JABLONSKI IS WORKING WITH SCIENTISTS IN CHINA AND VIETNAM TO STUDY THESE ANIMALS AND PROVIDE THE DATA WHICH WILL HELP GOVERNMENTS PRESERVE THE MONKEYS' UNIQUE HABITATS AND LAUNCH SUCCESSFUL ECOTOURISM EFFORTS.

DONG LIN

JANET ROBBINS

The Academy's 3,000-acre nature preserve in Sonoma County and the marine sanctuary in Bodega Bay, indeed all of Northern California's natural wonders, serve as education sites for youngsters and adults studying the life cycles of flowers, grasses, insects, birds and mammals.

1996

AT A GLANCE

Number of classes for adults: 288

Number of classes for children/families: 162

Number served (all ages) in docent tours: 24,824

Number enrolled in Junior Academy & Camp Academy: 873

Number of Supervan visits: 150 visits to 80 locations reaching 1,600 children and youths.

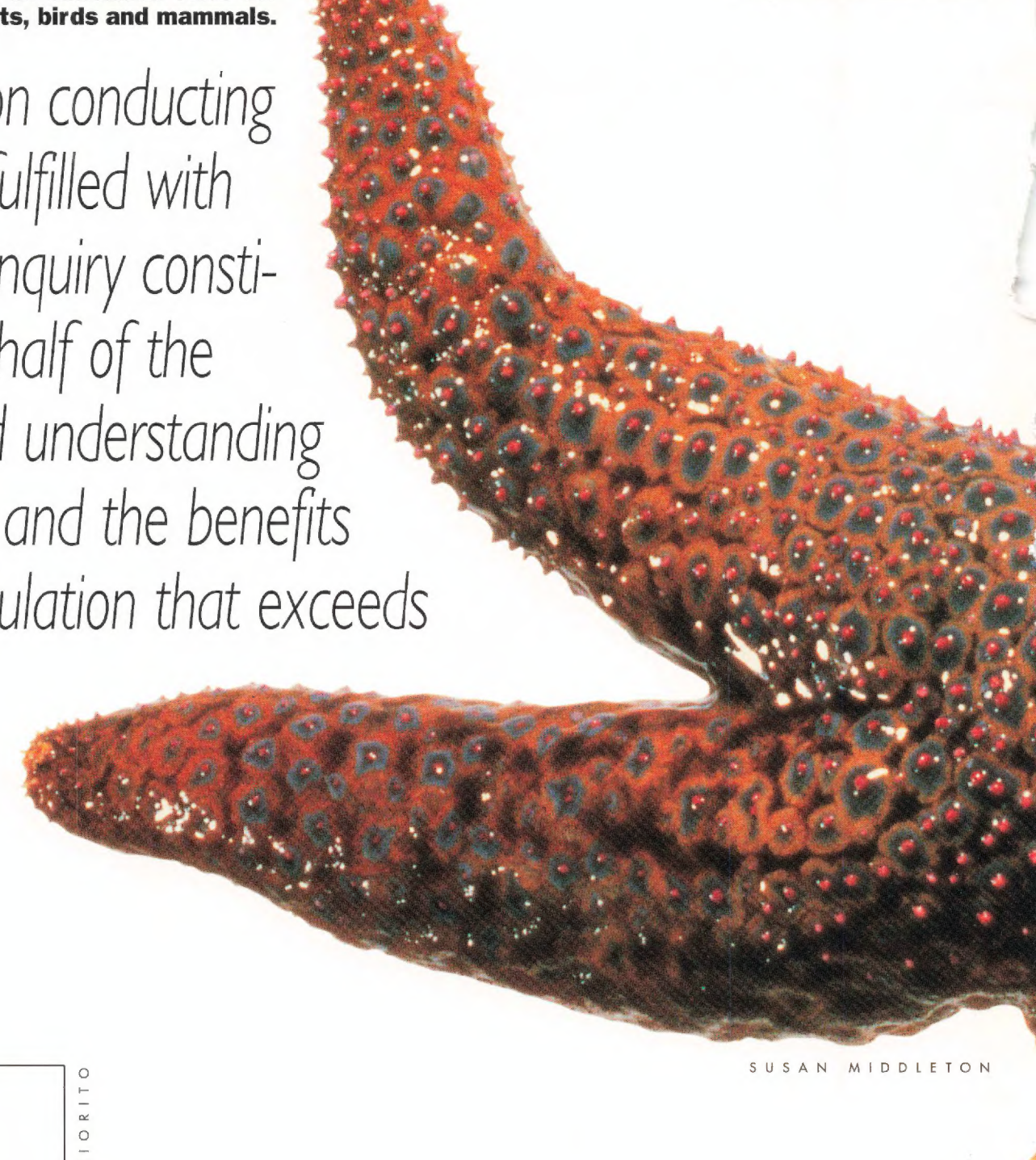
Number of teachers enrolled in Biology Forum: 315

Number of speaker programs: 50

Total audience: 14,388

Docents assisting in the department: 283

While the Academy's central focus is on conducting original research – a mandate it has fulfilled with distinction for many years – scientific inquiry constitutes only half its mission. The second half of the Academy's charge is to cultivate broad understanding and appreciation of the natural world and the benefits of biodiversity. Serving a "student" population that exceeds 300,000 annually, the Academy is the largest single science educator in Northern California.



SUSAN MIDDLETON

CHARLOTTE FIORITO

THE ACADEMY'S OWN BLACK-FOOTED PENGUINS HELPED A GROUP OF BUDDING SCIENTISTS LEARN HOW THESE AMAZING BIRDS ADAPT TO VARIED, OFTEN HARSH HABITATS.

SUSAN MIDDLETON

SKELETONS

WHICH FASCINATE CHILDREN DEMONSTRATE HOW MAMMALS' STRUCTURAL UNDERPINNINGS HELP THEM ADAPT TO ENVIRON-MENTAL DEMANDS.

Recognizing that the Academy's student populations range from very young to very old, from amateur to professional, and from resident to visitor, the Academy fulfills its role as educator in diverse ways … offering coursework through Junior and Camp Academies, downtown Adult Education classes, teacher-training institutes, an educational materials lending program, distinguished speaker series, field trips to the Academy's 3,000 acre nature preserve and the marine sanctuary at Bodega Bay, and Supervan mobile "mini-museum" visits to community centers, playgrounds and schools. Involving students in up-close, interactive activities and explorations with fossils, specimens, museum and live "exhibits" and the experts who work with them every day infuses theory with an immediacy and reality that is hard to achieve in any other way.

The thrill of discovery is the best "recruiting" device for the next generation of scientists & environmental defenders.

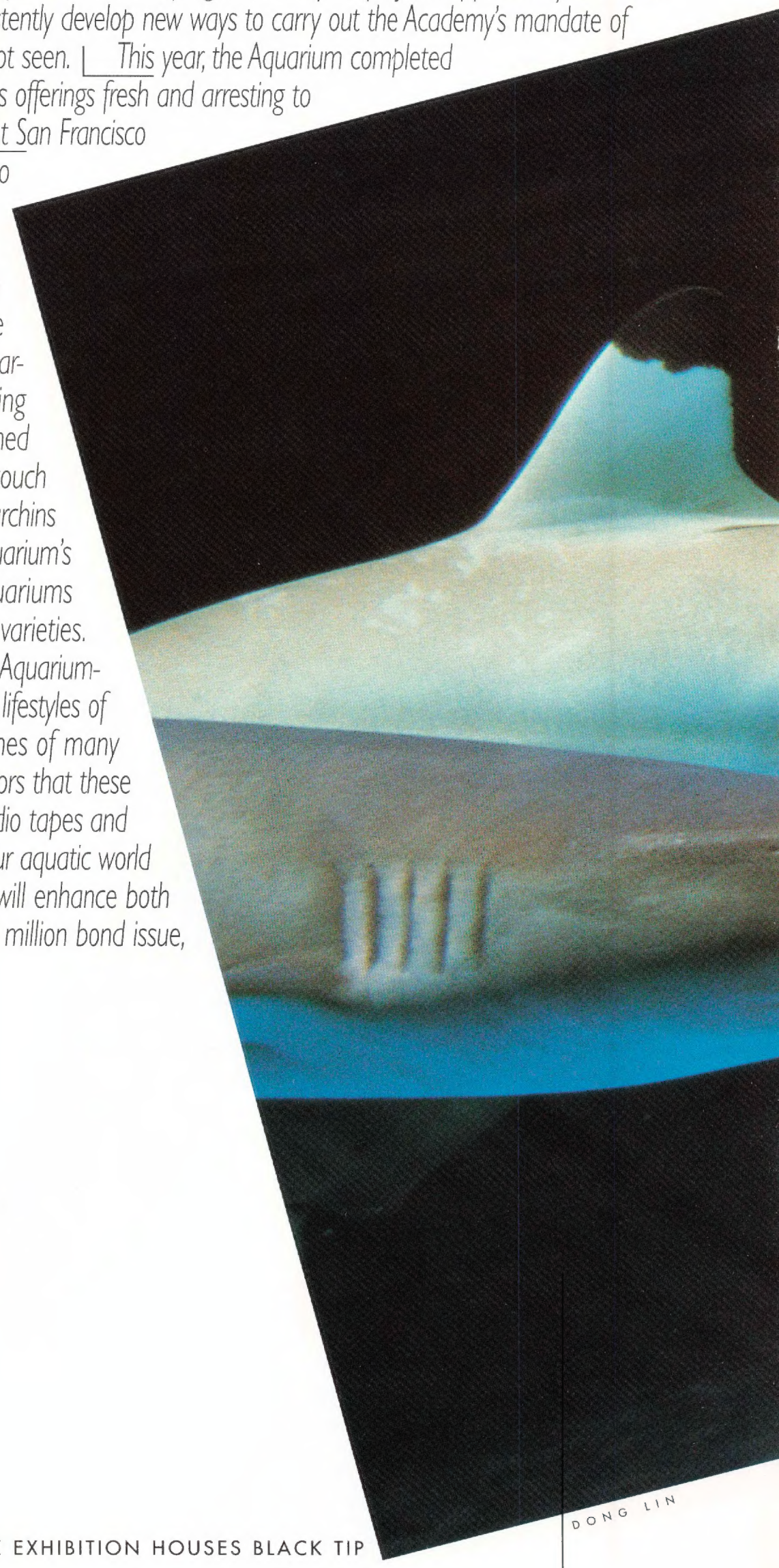
DONG LIN

Because the Academy's educational program is inextricably entwined with its research function, Education was brought under supervision of the Research Department in the 1995-96 program year. To strengthen the program, a new Education department head was recruited, along with an environmental educator. Their blueprint for change is based on the California Science Framework for public schools. A marine biologist and science educator who previously served as Director of Exhibitions at the American Museum of Natural History in New York, Chairman and Curator of Education Samuel Taylor is charged with reinventing the department to capitalize on the Academy's unique strengths. Next year's education offerings, says Taylor, should exemplify a sharpened focus on biodiversity, ecology and environmental issues, California natural history and the specific areas of research in which Academy scientists excel. The use of the Internet as a "virtual classroom site" will also grow. Target audiences will remain the same – individual school children and school groups, public school teachers and teachers-in-training, conservationists, college science majors and graduate students in systematics – as the Academy continues to educate the next generation of scientists, researchers and environmental advocates and the philanthropists who support their work.

The Academy as Education Center

The Academy's mission – to explore and explain the natural world – is carried out in living color in the Museum's most often-visited public section: The Steinhart Aquarium. Here 6,000 representatives of diverse aquatic habitats – from the muddy Mississippi to Caribbean coral reefs – circle at eye-level in the Aquarium's 165 individual tanks.

Some of these fascinating displays house species which are subjects of Academy Research projects. John McCosker, Chair of the Department of Aquatic Biology, is Principal Investigator, for example, on the winter-run Chinook Salmon captive broodstock program, a 10-year project supported by state and federal government funds. In addition to such research, the Aquarium must consistently develop new ways to carry out the Academy's mandate of interpreting and making visible habitats of the natural world that are ordinarily not seen. This year, the Aquarium completed major restoration and relocation projects and opened new displays which keep its offerings fresh and arresting to the hundreds of thousands of visitors who come to the Academy each year. At San Francisco International Airport, it debuted exhibits illustrating three major aquatic habitats to divert harried travelers. Across town, the Academy reopened its popular, spiraling, 100,000-gallon Fish Roundabout – an open-ocean habitat that was the first tank of its kind in the United States. Closed for more than a year for long-term maintenance and repair, the tank has been painstakingly sealed to withstand the effects of sea-water for years to come. And its population of constantly-moving barracuda, smelt, yellow tail, Pacific bonito, mackerel and whitefish is again speeding through the water on the back of a one-knot current. Simultaneously reopened was the Touch Tidepool which allows visitors to observe at close range – even touch (under docent supervision) – tactile sea stars, anemones, hermit crabs and sea urchins Round a corner and there at startling eye level are the inhabitants of the Aquarium's new exhibition on Tropical Sharks. The 15 sharks transferred in from other aquariums include black and white tip, Atlantic Nurse, Bamboo, Epaulet, and Wobbegong varieties. Standing eye to eye with a shark sizing up the visitor's luncheon availability gives Aquarium-goers a feel for life on the margins of a coral reef. Also reflecting underwater lifestyles of the richly-colored and tropical is the new Hawaiian Reef exhibit. The jewel-tones of many specimens are the oceanic equivalent of a skull and cross bones, warning predators that these dazzlingdenizens of the reef are poisonous. Explanatory signs, interactive audio tapes and helpful docents ensure that visitors come away with a broader appreciation of our aquatic world and its diverse inhabitants. But before long, a completely revamped Aquarium will enhance both excitement and educational values. With the passage in late 1995 of a $29.4 million bond issue, preliminarydesign work is well underway on a new Aquarium facility.



DONG LIN

A NEW TROPICAL SHARK EXHIBITION HOUSES BLACK TIP SHARKS ALONG WITH SEVERAL OTHER SPECIES.

The Academy's captive breeding program is an integral part of the world-wide effort to save this endangered species of penguin.

SUSAN MIDDLETON

1996

AT A GLANCE

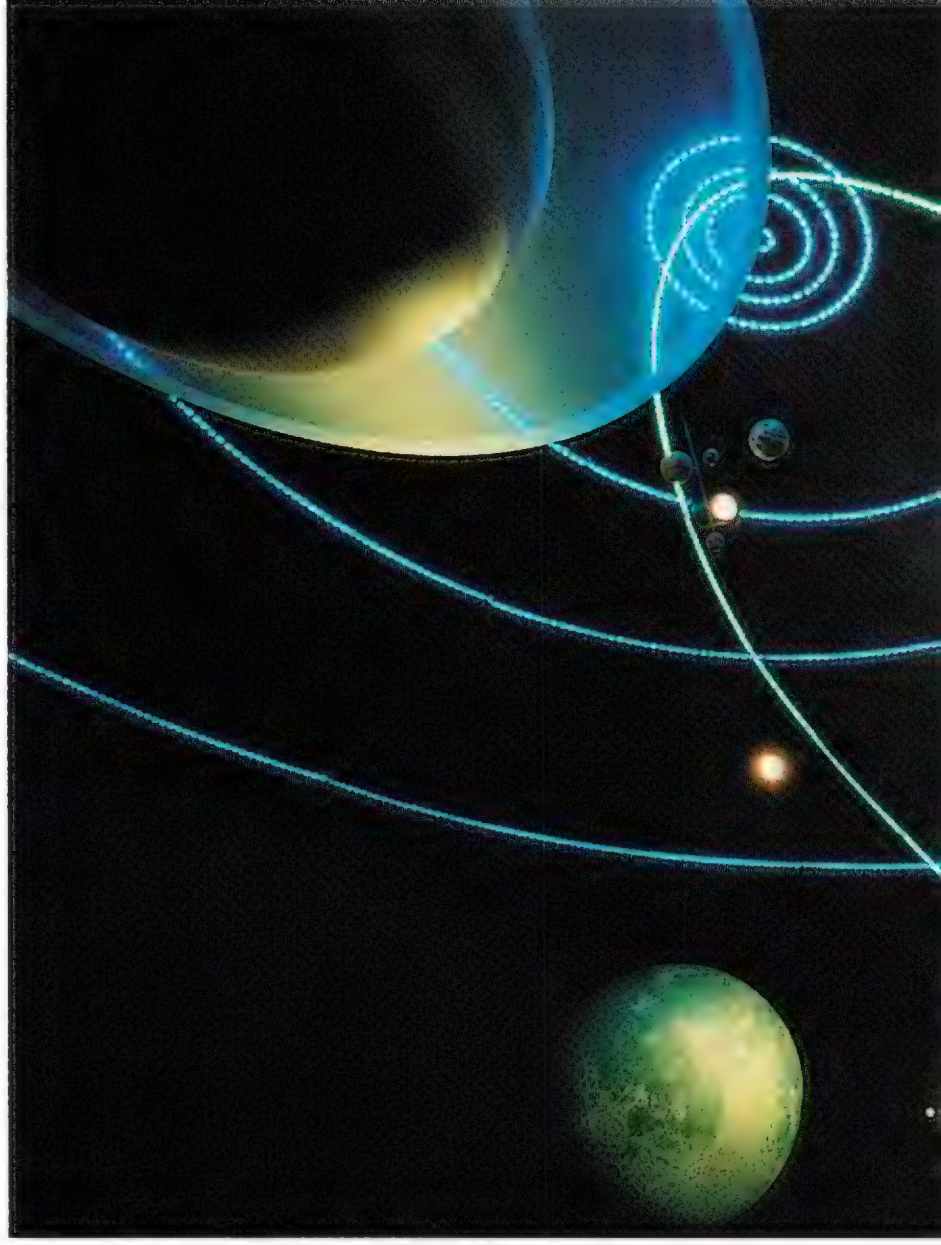
- **Size of collections: 8,000 total specimens, representing 600 species.**
- **Number of research/breeding projects underway: 6.**
- **Number of student visitors/ visiting scientists: 440**
- **Volunteers supporting the work of the department: 79**
- **Seminars, lectures and presentations made: 68**

SUSAN MIDDLETON

Small exhibit tanks display fish which prefer cozier spaces (including colorful coral reef species) while the restored and re-opened Fish Roundabout (right) recreates the open ocean habitat of barracuda, yellowtail, smelt and other silvery inhabitants of the oceans to a depth of 50 feet.

To walk into the Natural History Museum is to experience the Academy's abundant natural treasures and its intellectual wealth most simply and directly. More than 900,000 visitors – nearly half of them children – view its vast collections every year. At each display, more than a century of Academy research is distilled in interpretive materials that make the encounter meaningful.

Permanent exhibits – among them Life through Time: The Evidence for Evolution, Wild California, African Hall, Gem and Mineral Hall, Wattis Anthropology Gallery, Steinhart Aquarium, Morrison Planetarium and Earth and Space Hall – draw heavily on Museum collections and experts to beguile visitors with the majesty of earth, ocean and space… all in one place. According to the Museum's newly appointed Director of Public Programs Loren Behr, today's sophisticated visitor expects dynamic, interactive learning experiences. A veteran of the Chicago and Denver Children's Museums, Behr has wasted no time meeting those expectations. New learning modules – equipped with books, computers, audio and video tapes – are being installed in the African Hall. Similar additions will soon invigorate other halls. In partnership with the Education Department, a new cadre of docents is also being specially trained to engage visitors, transforming them from passive observers into active explorers of



SUSAN MIDDLETON

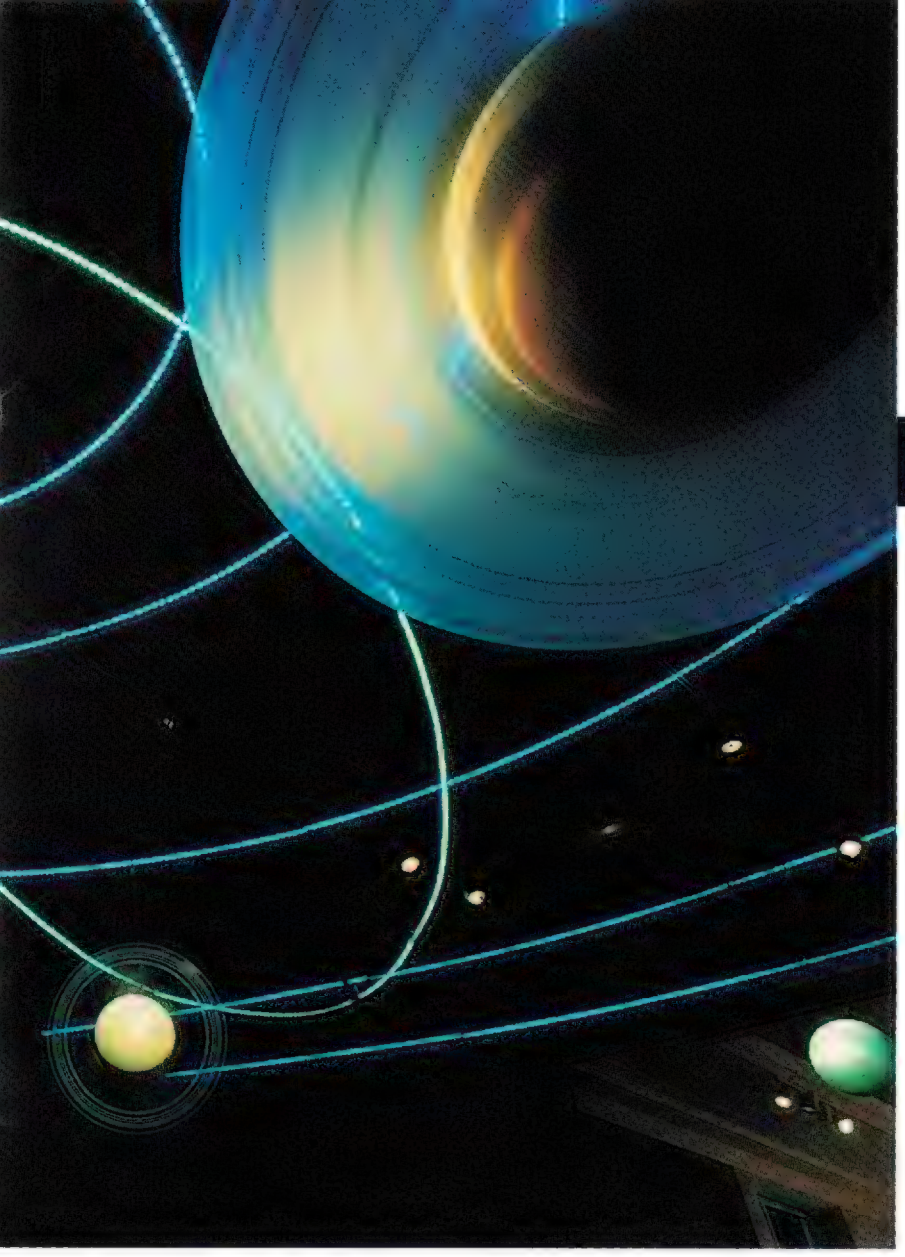
More than 120,000 visitors found themselves star-struck in the Morrison Planetarium's changing galaxy last year.

The Museum as Natural Educator

CAROLINE KOPP

From torrid deserts to alpine meadows, Wild California is a permanent celebration of the state's grandeur and diversity.

SUSAN MIDDLETON



natural science concepts, phenomena, environments and objects. In addition, planning is underway for several new exhibits – including a "Small World" of live insects and other invertebrates and a new earthquake exhibit which will allow visitors to experience both the geologic and human implications of these earth-shaking occurences.

The Planetarium...excites and enlightens

The Morrison Planetarium's heavenly show producers are no strangers to "production values." This year alone, Planetarium staff scripted and produced four new features – including "The Lair of the Bear" designed to illuminate Ursa Major in conjunction with the temporary exhibition on bears – and two new school shows – "Worlds beyond Earth" and "Extremes." But their year-round show "Where in Space Is Carmen Sandiego?" – based on the Broderbund computer game – won top marks from the younger set. Entertaining … yes! But, serious science is practiced here, too. Astronomy Day drew hundreds of amateur astronomers to trade observations with staff scientists. And Northern Californians continued to rely on Planetarium experts for daily starcasts in Bay area newspapers, as well as for expert commentary on heavenly phenomena. Planetarium staff, for example, hastily arranged a public presentation when the skies cleared, allowing comet Hyakutake to be viewed as it passed near the North Star. Facilitating future observation, a new concrete pad now accommodates several portable telescopes for large group star-gazing at Pepperwood's Hume Observatory. Two permanent telescopes there were also refurbished.

CAROLINE KOPP

The bones of creatures past speak across the eons of life through time.

1996

AT A GLANCE

Number of visitors: 936,000
Number attending "Bears": 321,000
Number attending "Ice Age Mammals": 264,000
Number of volunteers supporting the work of the department: 198

LECTURE SERIES

Transferred to Education in the 1996-97 fiscal year, the Academy's lecture series last year brought to the Museum:
Total audiences of: 10,000
Number of seminars, lectures and presentations: 33

PLANETARIUM

Number of visitors: 120,645
Number of students at school shows: 44,088
Number of Laserium shows: 555 presented to 47,301 patrons
Audience for Donn Lecture Series: 1,812

Special exhibits...new ways to see and learn

Scarcely settled into his new job as Director of Public Programs, Loren Behr wasted no time landing the year's most notable traveling exhibitions: "Creatures of the Ice Age & Other Amazing Mammals" and "Bears: Imagination and Reality." Visitors to the "Ice Age" traversed the exhibition, interactive "passports" in hand. "Bears" featured abundant interactive media explaining myths (and facts) which have surrounded this magnificent beast since the christening of Ursa Major by the ancients. Adding artistry to the exhibitions roster was the appearance of Chinese master stone carver Wang Lu Huan and his collection of animals sculpted from quartz, cinnabar, and other richly colored stones. Objects from the Academy's scientific collection illuminated the biological and geological principles behind Lu Huan's choice of materials.

DONG LIN

"Creatures of the Ice Age & Other Amazing Mammals"
Racing through 65 million years of evolution, this visiting exhibition stopped off for a closer look at such Ice Age inhabitants as small shrew-like creatures, giant sloths, saber-toothed cats and wooly mammoths. Rarely-seen materials from the Academy's collections, and from the U.C. Berkeley Museum of Paleontology, lent substance to the exhibit's robotic animals. While their Ice Age antics enthralled children, adult-oriented lectures focused on scientific discoveries reflected in the exhibit and the Ice Age landscape of San Francisco described by the Academy's own paleontologist and geologist Dr. Peter U. Rodda.

BEARS: IMAGINATION AND REALITY

PRESENTED BY BANK OF THE WEST, THIS TRAVELING EXHIBITION FOCUSED ON THE BEAR IN ALL ITS GUISES ... FROM BLACK BEAR CUBS IN THE WILD TO AMERICAN INDIAN BEAR CLAW NECKLACES, MASKS AND POTTERY. EVEN THE BELOVED TEDDY BEAR AND THE FABLED THREE BEARS MADE AN APPEARANCE. MORE THAN TWO DOZEN LIFE-LIKE MODELS ILLUSTRATED THE RANGE OF SIZES AND BEHAVIORS OF THE MAMMAL THAT HAS LONG INSPIRED HUMANITY'S AWE. A RANGE OF COMPANION ACTIVITIES – FROM COMPUTER GAMES, (BEAR) FLAG DAY CELEBRATIONS, APPEARANCES BY SMOKEY THE BEAR, AND A TEDDY BEAR PARADE – MADE THE MOST OF THE "BEARS" TOO BRIEF STAY.

DONG LIN

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Each year, one prominent member of the Fellows is singled out for special recognition. At the annual Fellows' meeting in October, 1995, the institution's highest honor – the Fellows' Medal – was bestowed on Dr. Sherwin Carlquist for his contributions to the fields of plant anatomy, biogeography and evolutionary biology. An Academy Fellow since 1968, Dr. Carlquist is Adjunct Professor of Biological Sciences at the University of California at Santa Barbara and Research Botanist at the Santa Barbara Botanic Garden.

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A brief tribute can never do justice to the tremendous contributions to science and to the Academy its corps of volunteers make annually. Quite simply, the Academy's research, education and public programs could not go forward without them. They label and store specimens and serve as adjunct teachers and exhibit docents. Without the dedication and support of these 1263 individuals – who contributed more than 48,500 hours of work this year – the Academy would not be the institution it is. To these loyal supporters, we dedicate this report…with deepest thanks.

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Abbrev./Assignment

- **AE** ACADEMY ESCORT
- **AN** ANTHROPOLOGY
- **AQ** AQUARIUM
- **AS** ACADEMY STORY
- **BC** BIODIVERSITY CENTER
- **BO** BOTANY
- **BR** BEARS
- **CD** CERTIFIED DIVER
- **CH** COWELL HALL HANDS-ON
- **CL** CLERICAL
- **CS** COMPUTER SERVICES
- **DO** DOCENT
- **DR** DISCOVERY ROOM
- **DV** DEVELOPMENT
- **ED** EDUCATION
- **EM** EDUCATION MEDIA
- **EN** ENTOMOLOGY
- **EX** EXHIBITS
- **HE** HERPETOLOGY
- **HL** HIGHLIGHT DOCENT
- **IC** ICTHYOLOGY
- **ID** INFORMATION DESK
- **IG** INVERTEBRATES & GEOLOGY
- **IS** INSTRUMENT SHOP
- **JA** JUNIOR ACADEMY
- **JP** JURASSIC PARK
- **LI** LIBRARY
- **LS** LIBRARY SPECIAL COLLECTION
- **MM** MEMBERSHIP
- **OM** ORNITHOLOGY & MAMMALOGY
- **OP** OPERATIONS
- **OS** OSHER LABORATORY
- **PD** PACIFIC DISCOVERY
- **PH** PHOTOGRAPHY
- **PI** PUBLIC INFORMATION
- **PL** PLANETARIUM
- **PP** PUBLIC PROGRAMS
- **PW** PEPPERWOOD RANCH
- **SE** SPECIAL EVENTS
- **SP** SCIENTIFIC PUB.
- **TP** TIDEPOOL
- **VS** VOLUNTEER SERVICES

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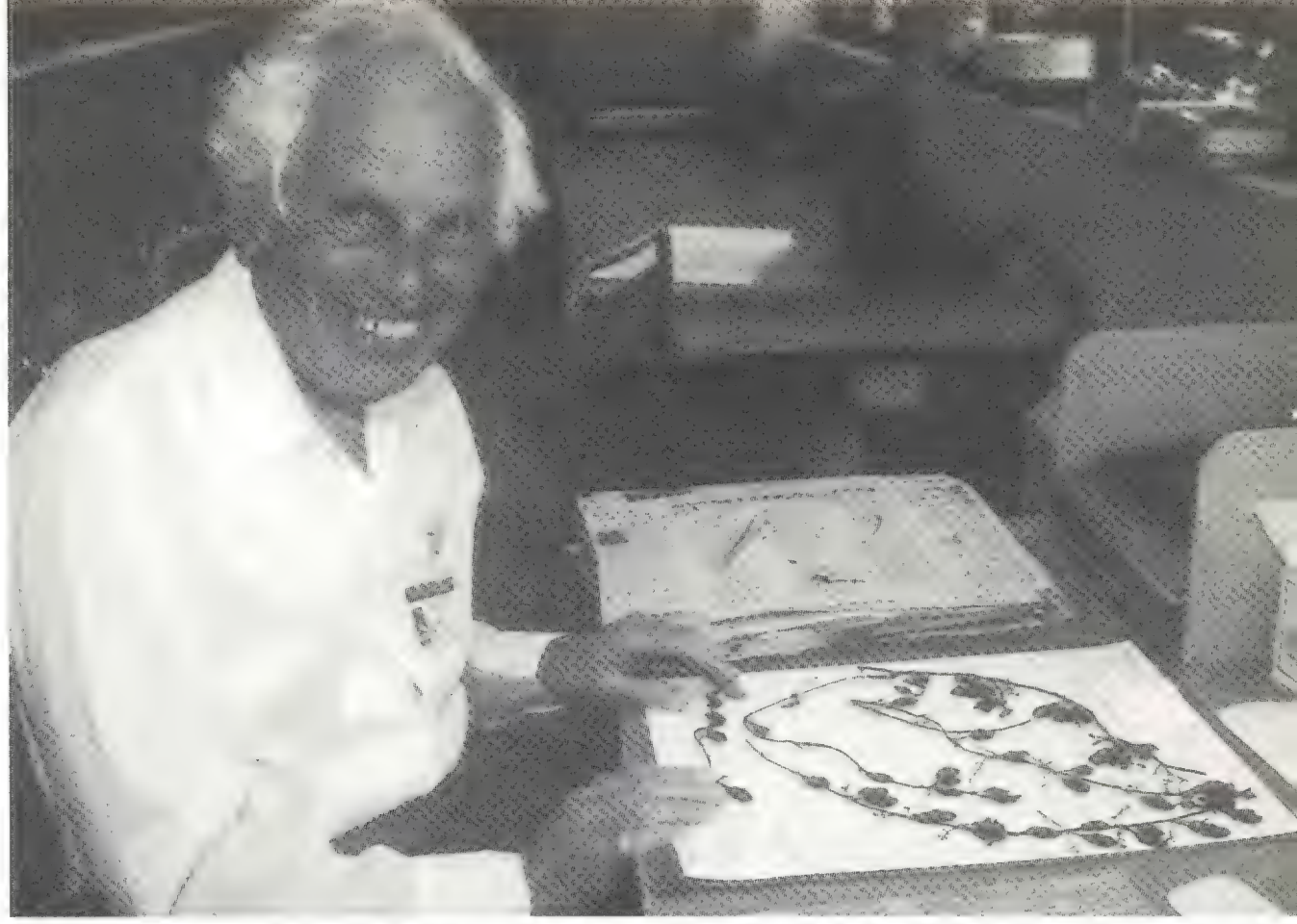

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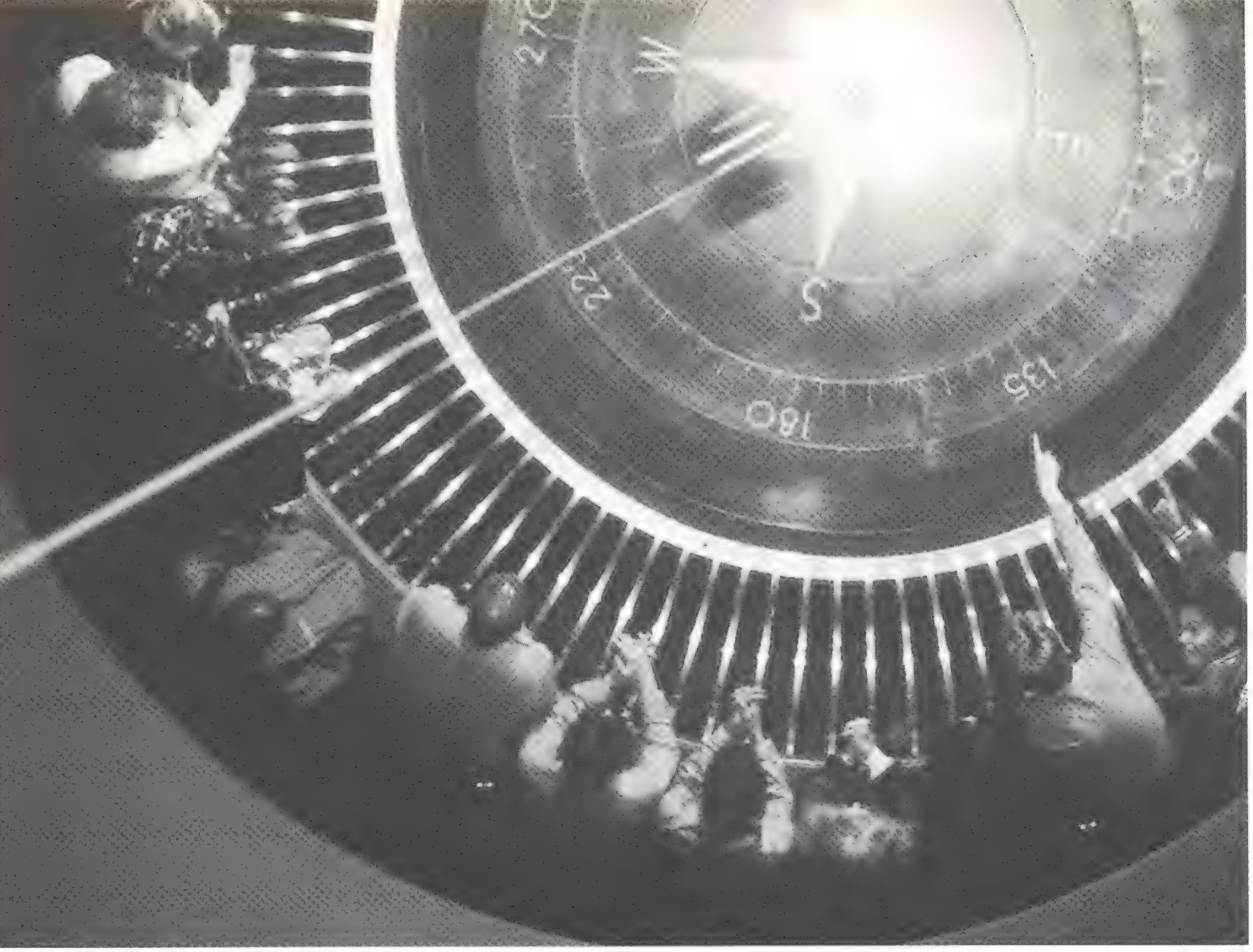

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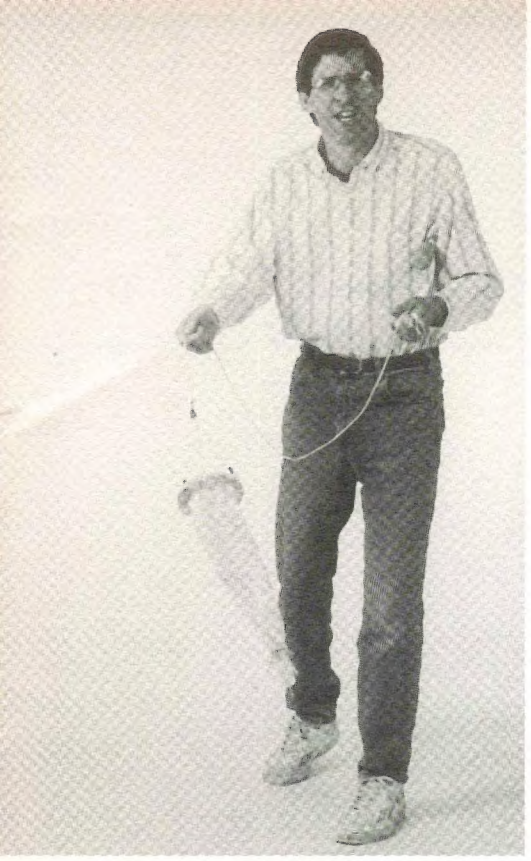

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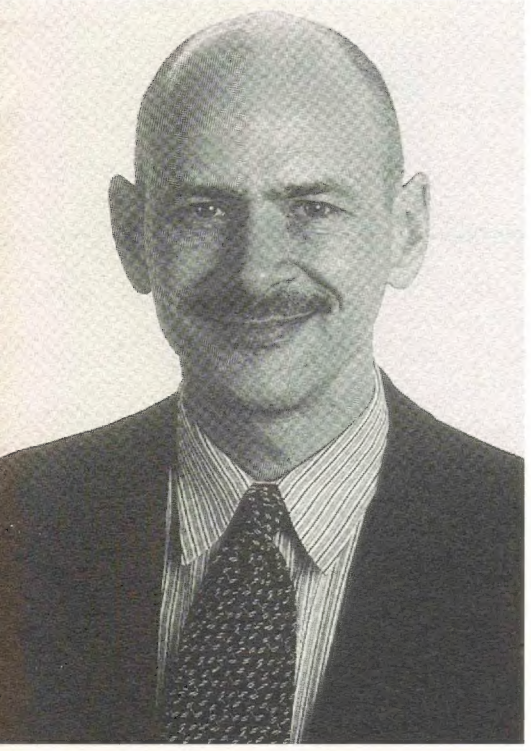

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Balance Sheet

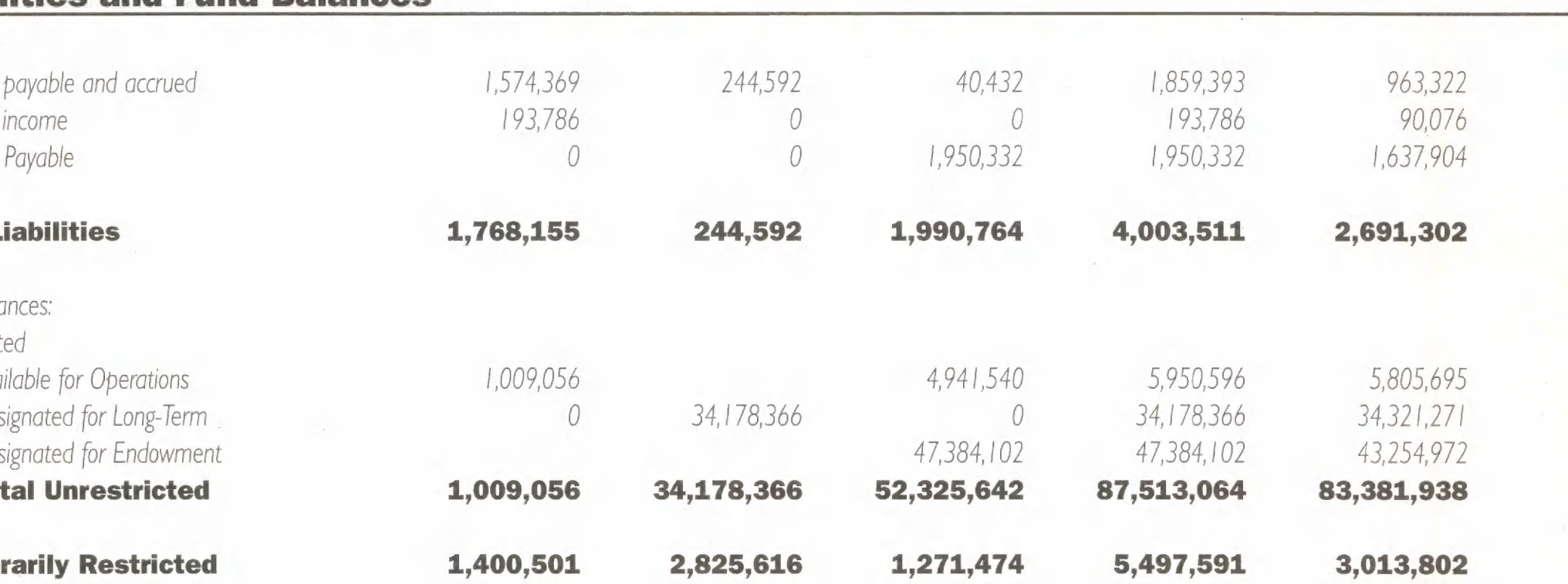
JUNE 30, 1996 WITH COMPARATIVE TOTALS FOR 1995

Assets	Operating	Plant	Endowment	Total all Funds 1996	1995
Cash and cash equivalents:	*2,725,406*	*1,261,875*	*2,155,155*	*6,142,436*	*6,308,774*
Investments in marketable securities	*0*	*0*	*64,014,130*	*64,014,130*	*57,229,848*
Receivables:					
Research grants	*31,960*	*0*	*0*	*31,960*	*63,286*
Interest & Dividends	*325,572*	*0*	*0*	*325,572*	*406,845*
Other	*118,001*	*108,333*	*0*	*226,334*	*329,824*
Contributions	*56,000*	*1,700,000*	*0*	*1,756,000*	*71,000*
Inventory	*497,366*	*0*	*0*	*497,366*	*305,880*
Prepaid expenses	*423,407*	*0*	*0*	*423,407*	*327,474*
Investments Held in Trust			*3,532,266*	*3,532,266*	*3,032,266*
Property and Equipment at cost, less Accumulated Depreciation	*0*	*34,178,366*	*0*	*34,178,366*	*34,321,271*
Total assets	**4,177,712**	**37,248,574**	**69,701,551**	**111,127,837**	**102,396,468**

Liabilities and Fund Balances

Liabilities:					
Accounts payable and accrued	*1,574,369*	*244,592*	*40,432*	*1,859,393*	*963,322*
Deferred income	*193,786*	*0*	*0*	*193,786*	*90,076*
Annuities Payable	*0*	*0*	*1,950,332*	*1,950,332*	*1,637,904*
Total Liabilities	**1,768,155**	**244,592**	**1,990,764**	**4,003,511**	**2,691,302**
Fund Balances:					
Unrestricted					
Available for Operations	*1,009,056*		*4,941,540*	*5,950,596*	*5,805,695*
Designated for Long-Term	*0*	*34,178,366*	*0*	*34,178,366*	*34,321,271*
Designated for Endowment			*47,384,102*	*47,384,102*	*43,254,972*
Total Unrestricted	**1,009,056**	**34,178,366**	**52,325,642**	**87,513,064**	**83,381,938**
Temporarily Restricted	**1,400,501**	**2,825,616**	**1,271,474**	**5,497,591**	**3,013,802**
Permanently Restricted			**14,113,671**	**14,113,671**	**13,309,426**
Total Net Assets	**2,409,557**	**37,003,982**	**67,710,787**	**107,124,326**	**99,705,166**
Total Liabilities & Net Assets	**4,177,712**	**37,248,574**	**69,701,551**	**111,127,837**	**102,396,468**

OPERATING REVENUE YEAR ENDING JUNE 30, 1996



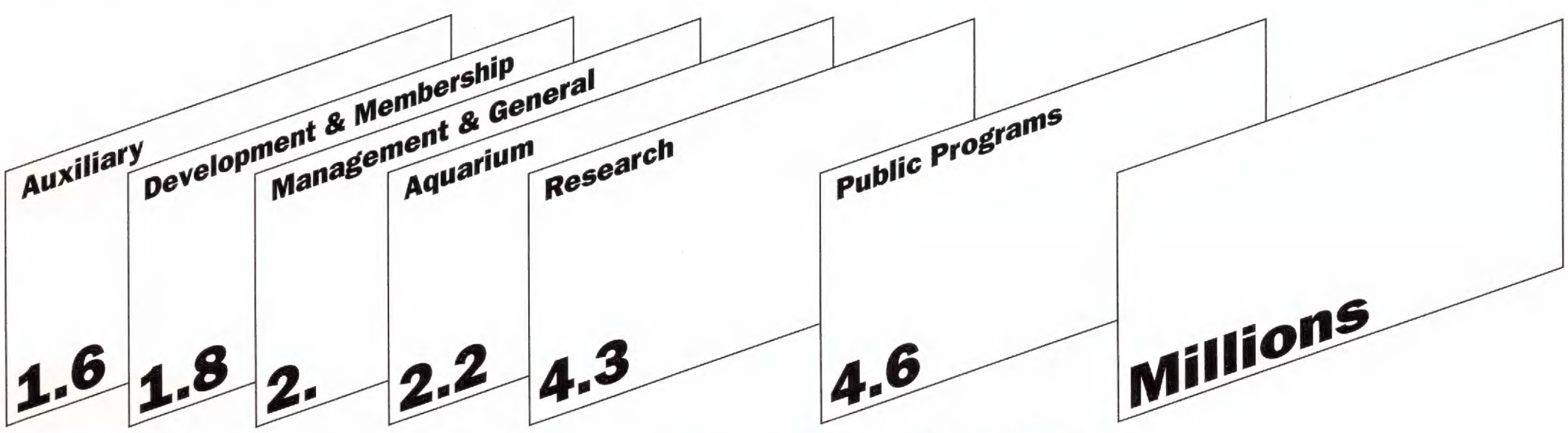
Revenue 16.9 Million

Statement of Activities

JUNE 30, 1996

Changes in Net Assets:	Operating	Plant	Endowment	Total 1996	Total 1995
Revenue and Gains:					
Admissions	*3,114,384*			*3,114,384*	*3,136,905*
Contributions	*2,190,682*	*3,068,402*	*814,608*	*6,073,692*	*5,115,808*
Memberships	*1,058,482*			*1,058,482*	*865,862*
Tuition & Program Fees	*988,630*			*988,630*	*898,037*
Auxiliary Activities	*2,017,776*			*2,017,776*	*1,955,068*
Government Grant Income	*482,048*			*482,048*	*665,550*
City & County of San Francisco	*1,518,771*	*182,523*	*0*	*1,701,294*	*2,145,299*
Investment Income	*2,215,623*	*17,568*		*2,233,191*	*2,297,833*
Net realized gains on long-term investment	*3,341,945*	*12,387*	*4,358,908*	*7,713,240*	*3,986,769*
Total Revenue, Gains & Other Support	**16,928,341**	**3,280,880**	**5,173,516**	**25,382,737**	**21,067,131**
Expenses					
Research	*4,256,972*			*4,256,972*	*4,011,127*
Public Programs	*4,586,066*			*4,586,066*	*4,260,001*
Aquarium	*2,222,358*			*2,222,358*	*2,338,815*
Development & Membership	*1,802,846*	*102,595*		*1,905,441*	*1,671,584*
Auxiliary Activities	*1,642,947*			*1,642,947*	*1,463,808*
Management & General	*1,955,588*			*1,955,588*	*1,545,994*
Depreciation Expense		*1,394,205*		*1,394,205*	*1,381,543*
Total Expense	**16,466,777**	**1,496,800**	**0**	**17,963,577**	**16,672,872**
Transfer Between Funds					
Capital Expenditures	*(407,384)*	*407,384*		*0*	*0*
Other Transfer	*(14,004)*	*14,004*		*0*	*0*
Increase/(Decrease) in Net Assets	**40,176**	**2,205,468**	**5,173,516**	**7,419,160**	**4,394,259**
Net Assets at beginning of year	*2,369,381*	*34,798,514*	*62,537,271*	*99,705,166*	*95,310,907*
Net assets at end of year	**2,409,557**	**37,003,982**	**67,710,787**	**107,124,326**	**99,705,166**

OPERATING EXPENSES YEAR ENDING JUNE 30, 1996



Expenditures 16.5 Million

GREG SLATER

California Academy of Sciences Annual Report 1996

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